

# Morbidity and Mortality

Weekly Report

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE

Prepared by the

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PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON  
DEATHS IN SELECTED CITIES FOR WEEK ENDED OCTOBER 31, 1964

## TYPHOID ISSUE

### EPIDEMIOLOGIC NOTES

**Influenza** — No major outbreaks of influenza documented by virus isolation have been reported in the continental United States as yet this season. However, scattered clusters of febrile respiratory illness have recently been reported from Oregon. Acute and convalescent sera from 5 clinically suspect cases of influenza have shown significant antibody rises to A<sub>2</sub> influenza. Virus isolation attempts are in progress.

A<sub>2</sub> virus has recently been isolated from a case of characteristic clinical influenza representing part of a relatively widespread outbreak in Puerto Rico. This out-

break began in mid-August and extended through October. (See MMWR, Vol. 13, No. 40). Serological evidence of infection was demonstrated among a number of typical cases from various parts of Puerto Rico.

An outbreak of respiratory disease in Hawaii has been reported with school absenteeism up to 25 percent in some areas. There is serological evidence of Type B influenza infection in 3 cases from whom acute and convalescent serum specimens were obtained. The Hawaii State Department of Health Laboratory is continuing efforts to isolate the etiologic agent.

Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
(Cumulative totals include revised and delayed reports through previous weeks)

Disease	44th Week Ended		Median 1959 - 1963	Cumulative, First 44 Weeks		
	October 31, 1964	November 2, 1963		1964	1963	Median 1959 - 1963
Aseptic meningitis .....	44	48	---	1,801	1,587	---
Brucellosis .....	4	4	8	346	315	498
Diphtheria .....	10	10	13	234	226	481
Encephalitis, primary infectious ..	54	29	---	2,816	1,343	---
Encephalitis, post-infectious ..	7		---	726		---
Hepatitis, infectious including serum hepatitis .....	633	782	921	32,395	36,694	36,694
Measles .....	1,179	1,449	1,611	440,165	365,382	394,853
Meningococcal infections .....	55	41	41	2,293	2,029	1,875
Poliomyelitis, Total .....	3	9	38	107	372	1,180
Paralytic .....	1	5	23	83	316	764
Nonparalytic .....	1	3	---	13	39	---
Unspecified .....	1	1	---	11	17	---
Streptococcal Sore Throat and Scarlet fever .....	5,899	5,841	---	332,510	285,050	---
Tetanus .....	3	4	---	239	232	---
Tularemia .....	3	10	---	284	257	---
Typhoid fever .....	5	13	23	362	464	705
Rabies in Animals .....	90	83	57	3,854	3,241	3,178

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	4	Psittacosis: Ga-1	40
Botulism:	15	Rabies in Man:	1
Leptospirosis: Ga-1, Fla-1	94	Smallpox:	-
Malaria: N.Y. City-2, Calif-1	84	Typhus- Murine:	22
Plague:	-	Rky Mt. Spotted: Tenn-2	217

Figures for current week exclude missing reports from Maryland, Montana, and Washington

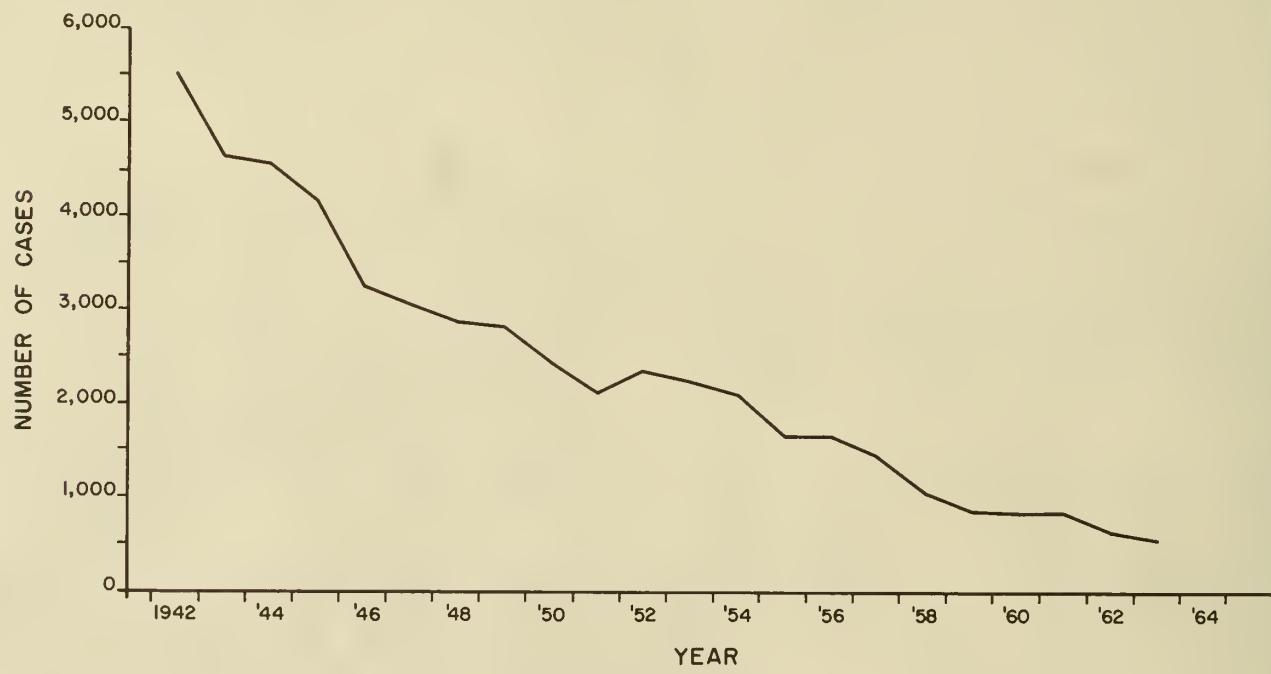
## TYPHOID FEVER

To date, 362 cases of typhoid fever have been reported in the United States in 1964. There were 464 cases during the corresponding period in 1963.

The accompanying graph shows the yearly incidence of reported cases of typhoid fever in the United States

during the years 1942-1963. A continuous decline in incidence is demonstrated. In 1942, 5,595 cases were reported whereas in 1963, 566 cases are recorded. Outbreaks of typhoid in Atlanta, Georgia and Aberdeen, Scotland are described in this issue.

## REPORTED CASES OF TYPHOID FEVER—UNITED STATES, 1942-1963



## TYPHOID FEVER—Aberdeen, Scotland

Dr. J. H. F. Brotherton, Chief, Medical Officer, Scottish Home and Health Department, has provided an account of the typhoid epidemic which occurred in Aberdeen in the spring of this year. The following is abstracted from his report.

The first small group of 4 cases of typhoid fever in Aberdeen was notified to the Medical Officer of Health in the morning of May 20, 1964. The chart of dates of onset shows a peak about May 15 with no evidence of secondary infections. It is consistent with continuation of the primary source of infection for some days.

The last date on which infection probably occurred was Saturday, May 23. The total number of patients admitted to hospital exceeded 500 of whom approximately 450 were from Aberdeen. Various other patients took ill in adjoining county areas and a few even further afield. All patients were connected directly with the original source of the outbreak.

Although the first patients appeared quite ill, many of the later patients showed little or no clinical illness. The final number of accepted cases is therefore still under review. It is expected to be about 400. One accepted case resulted in death in relapse. Another ac-

cepted case was fatal but probably not directly from typhoid infection.

The patients who could give adequate histories all gave a history of the consumption of canned or prepared meat from one shop. This shop is mainly a supermarket selling packaged foods. It has a separate vegetable counter and separate cold meat counter. The cold meat counter had one mechanical slicer and the usual knives and equipment.

The staff of the shop were themselves selectively affected and showed a much higher incidence of typhoid fever than the customers or the general population. Some of the staff had shown symptoms on or about May 17 and at least one stayed on duty up to May 23 although suffering from symptoms consistent with mild typhoid fever. These workers produced negative tests when investigated on May 21.

The organism responsible for the outbreak was uniformly of type 34. This type was practically unknown in Great Britain previously.

Most of the patients had eaten corned beef but a small number had eaten other canned meats sold at the supermarket counter. Corned beef provided the largest

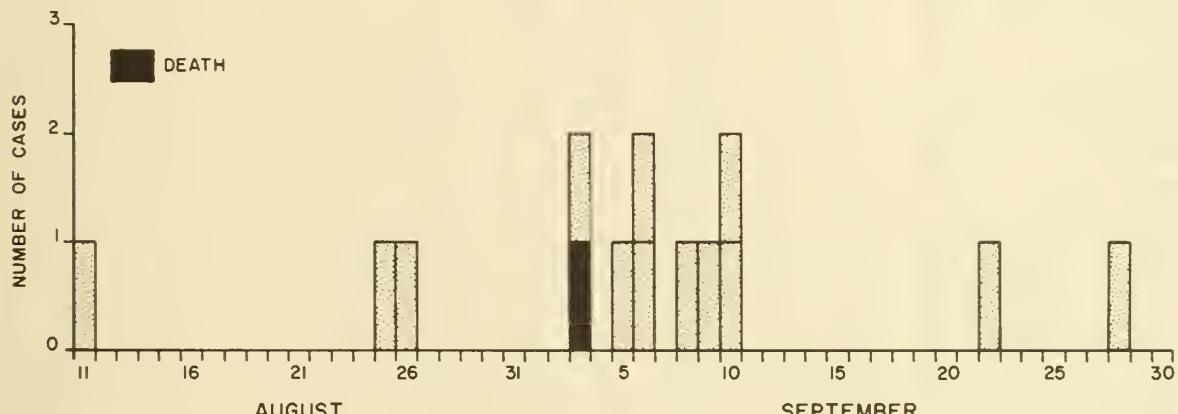
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## TYPHOID FEVER - Georgia

Fifteen cases of typhoid fever occurring over a 34-day period were reported from the Atlanta, Georgia area. On August 30, 1964, the apparent index case, a 6-year-old boy, was admitted to Grady Memorial Hospital because of fever, abdominal pain, and vomiting. Over the next 2 weeks, 14 additional children, ranging in age from 2 to 14 years, were admitted to the hospital with a febrile

illness and a variety of constitutional and gastrointestinal symptoms compatible with typhoid fever (See table). *Salmonella typhi* phage type E-1 was isolated from each of the cases. The epidemic curve, based on day of onset of symptoms (See graph), indicates a span of 34 days between the index case and the last symptomatic case.

OUTBREAK OF TYPHOID FEVER BY DATE OF ONSET  
ATLANTA, GEORGIA-1964



Epidemiologic investigation revealed that all of the cases were from 3 homes both geographically and socially close to one another. Almost all of the children played with one another frequently; however, there had been no recent joint gatherings, picnics, or parties. The water and milk supplies were not contaminated when tested. All of the adults in these 3 households submitted stool specimens. The only stool positive for *S. typhi* was from a 49-year-old woman involved in child care and meal preparation in one of the households. This woman had no previous history of typhoid fever but she had experienced malaise, headache, and myalgia without fever or gastrointestinal symptoms in early August. Local health authorities believe she was either a missed case of typhoid or

a carrier. The exact mode of spread in this epidemic is not clear, but all of the children played at one time or another in a flooded culvert nearby where they might urinate or defecate at times.

The majority of the children responded to therapy with chloramphenicol; one case apparently responded to the addition of steroid therapy. The only death was case #4 (see table) a 4-year-old girl who developed renal failure.

(Reported by Dr. John McCroan, Director of Disease and Disability Studies, Georgia Department of Public Health, Dr. Malcom Neel, Director of Medical Services, Fulton County Health Department, and a team from CDC).

Case No.	Age	Sex	Hause	Onset of Symptoms	Clinical Picture					Positive Culture of <i>S. typhi</i> Type E-1		Comment
					Temperature >101°	Pulse >120	Abdominal Pain	Headache	Diarrhea	Blood	Stool	
1	6	M	A	8/25	+	+	+	0	0	+	0	
2	14	M	B	8/26	+	0	+	0	+	+	+	Relapse 14 days after chloramphenicol. Readmitted 10/5
3	4	F	A	9/3	+	+	+	0	0	+	0	
4	4	F	B	9/3	+	+	+	+	+	+	0	
5	5	M	C	9/5	+	+	+	+	0	+	0	
6	8	F	B	9/6	+	0	+	+	+	+	0	
7	8	F	B	9/6	+	0	0	+	+	+	+	
8	10	M	A	9/10	+	+	+	0	0	+	+	
9	9	F	B	9/8	+	+	+	+	0	+	0	
10	2	F	A	9/10	+	0	+	0	0	0	0	
11	6	M	B	9/29	+	+	0	+	0	+	0	
12	11	M	B	9/12	0	0	+	+	+	+	+	
13	6	M	B	9/22	+	+	0	0	+	+	0	
14	3	M	A	-	0	0	0	0	0	0	+	No apparent symptoms
15	49	F	B	?8/10	0	0	0	+	0	0	+	Carrier or missed case

## Morbidity and Mortality Weekly Report

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDED  
OCTOBER 31, 1964 AND NOVEMBER 2, 1963 (44TH WEEK)

Area	Aseptic Meningitis		Encephalitis		Poliomyelitis, Total Cases				Poliomyelitis, Paralytic					
	Primary	Post-Inf.			1964		1963		Cumulative		1964	1963	Cumulative	
			1964	1963	1964	1964	1964	1963	1964	1963			1964	1963
UNITED STATES...	44	48	54	7	3	9	107	372	1	5	83	316		
NEW ENGLAND.....	-	2	1	1	-	-	2	8	-	-	2	8		
Maine.....	-	1	-	-	-	-	-	2	-	-	-	2		
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	-	-		
Vermont.....	-	-	-	-	-	-	-	1	-	-	-	1		
Massachusetts.....	-	-	1	-	-	-	-	3	-	-	-	3		
Rhode Island.....	-	1	-	1	-	-	-	-	-	-	-	-		
Connecticut.....	-	-	-	-	-	-	2	2	-	-	2	2		
MIDDLE ATLANTIC.....	7	7	29	1	-	2	15	116	-	1	13	93		
New York City.....	2	-	6	-	-	-	2	-	-	-	2	-		
New York, Up-State.....	3	5	1	-	-	1	10	9	-	1	9	6		
New Jersey.....	2	-	19	-	-	1	3	4	-	-	2	3		
Pennsylvania.....	-	2	3	1	-	-	-	103	-	-	-	84		
EAST NORTH CENTRAL...	7	6	10	-	1	1	23	56	-	-	15	45		
Ohio.....	2	-	1	-	-	-	3	8	-	-	2	4		
Indiana.....	1	-	8	-	-	-	8	4	-	-	5	3		
Illinois.....	3	2	1	-	-	-	5	17	-	-	5	16		
Michigan.....	1	4	-	-	-	-	4	19	-	-	2	19		
Wisconsin.....	-	-	-	-	1	1	3	8	-	-	1	3		
WEST NORTH CENTRAL...	2	3	7	-	-	-	9	6	-	-	7	5		
Minnesota.....	2	3	2	-	-	-	3	4	-	-	2	4		
Iowa.....	-	-	-	-	-	-	-	-	-	-	-	-		
Missouri.....	-	-	1	-	-	-	4	-	-	-	3	-		
North Dakota.....	-	-	-	-	-	-	1	1	-	-	1	-		
South Dakota.....	-	-	1	-	-	-	-	-	-	-	-	-		
Nebraska.....	-	-	2	-	-	-	-	1	-	-	-	1		
Kansas.....	-	-	1	-	-	-	1	-	-	-	1	-		
SOUTH ATLANTIC.....	2	6	2	-	2	2	31	67	1	1	25	57		
Delaware.....	-	-	-	-	-	-	-	1	-	-	-	1		
Maryland.....	-	-	-	-	-	-	1	1	-	-	1	1		
Dist. of Columbia.....	-	-	-	-	-	-	-	1	-	-	-	-		
Virginia.....	2	-	-	-	-	-	4	18	-	-	4	13		
West Virginia.....	-	1	-	-	-	-	1	3	-	-	1	3		
North Carolina.....	-	-	1	-	1	-	11	3	-	-	6	3		
South Carolina.....	-	-	-	-	-	-	3	7	-	-	3	6		
Georgia.....	-	-	-	-	-	-	1	19	-	-	1	18		
Florida.....	-	5	1	-	1	2	10	14	1	1	9	12		
EAST SOUTH CENTRAL...	1	6	2	-	-	4	6	69	-	3	5	63		
Kentucky.....	-	-	-	-	-	-	-	-	-	-	-	-		
Tennessee.....	-	-	-	-	-	-	3	10	-	-	2	9		
Alabama.....	1	3	-	-	-	3	2	51	-	2	2	46		
Mississippi.....	-	3	2	-	-	1	1	8	-	1	1	8		
WEST SOUTH CENTRAL...	2	-	-	-	-	-	10	23	-	-	8	22		
Arkansas.....	1	-	-	-	-	-	-	4	-	-	-	3		
Louisiana.....	-	-	-	-	-	-	-	13	-	-	-	13		
Oklahoma.....	1	-	-	-	-	-	3	-	-	-	2	-		
Texas.....	-	-	-	-	-	-	7	6	-	-	6	6		
MOUNTAIN.....	3	1	1	-	-	-	8	6	-	-	5	5		
Montana.....	-	-	-	-	-	-	1	-	-	-	1	-		
Idaho.....	-	-	-	-	-	-	1	1	-	-	1	1		
Wyoming.....	-	-	-	-	-	-	2	-	-	-	2	-		
Colorado.....	1	1	1	-	-	-	1	1	-	-	1	1		
New Mexico.....	1	-	-	-	-	-	3	1	-	-	-	-		
Arizona.....	1	-	-	-	-	-	-	3	-	-	-	3		
Utah.....	-	-	-	-	-	-	-	-	-	-	-	-		
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-		
PACIFIC.....	20	17	2	5	-	-	3	21	-	-	3	18		
Washington.....	-	1	-	-	-	-	-	2	-	-	-	2		
Oregon.....	-	1	-	-	-	-	1	2	-	-	1	1		
California.....	19	15	2	4	-	-	2	17	-	-	2	15		
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-		
Hawaii.....	1	-	-	1	-	-	-	-	-	-	-	-		
Puerto Rico	-	-	-	-	-	-	-	5	-	-	-	4		

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDED  
OCTOBER 31, 1964 AND NOVEMBER 2, 1963 (44TH WEEK) - CONTINUED

Area	Brucellosis		Diphtheria		Infectious Hepatitis including Serum Hepatitis						Typhoid Fever	
	1964	Cum. 1964	1964	Cum. 1964	Total	Under 20 years	20 years and over	Age Unknown	Cumulative		1964	Cum. 1964
					1964	1964	1964	1964	1964	1963		
UNITED STATES..	4	346	10	234	633	320	275	38	32,395	36,694	5	362
NEW ENGLAND.....	-	2	-	44	50	24	22	4	2,945	4,124	-	16
Maine.....	-	-	-	39	13	4	8	1	922	1,838	-	-
New Hampshire.....	-	-	-	-	4	1	2	1	230	487	-	-
Vermont.....	-	-	-	-	2	1	1	-	355	109	-	-
Massachusetts.....	-	2	-	5	18	13	5	-	663	1,071	-	7
Rhode Island.....	-	-	-	-	6	1	3	2	180	98	-	6
Connecticut.....	-	-	-	-	7	4	3	-	595	521	-	3
MIDDLE ATLANTIC.....	-	5	-	10	163	92	71	-	7,151	7,269	1	61
New York City.....	-	-	-	5	21	9	12	-	1,100	1,126	1	32
New York, Up-State.....	-	2	-	-	71	40	31	-	3,098	3,131	-	10
New Jersey.....	-	-	-	2	34	14	20	-	1,212	1,075	-	2
Pennsylvania.....	-	3	-	3	37	29	8	-	1,741	1,937	-	17
EAST NORTH CENTRAL.....	1	49	-	8	107	57	44	6	5,100	5,895	1	79
Ohio.....	-	5	-	-	37	19	13	5	1,339	1,619	-	19
Indiana.....	-	1	-	1	4	2	2	-	435	525	1	24
Illinois.....	1	28	-	6	19	10	8	1	947	1,240	-	22
Michigan.....	-	6	-	1	46	26	20	-	2,025	2,248	-	11
Wisconsin.....	-	9	-	-	1	-	1	-	354	263	-	3
WEST NORTH CENTRAL.....	-	142	2	34	32	16	13	3	1,754	1,619	1	29
Minnesota.....	-	9	2	18	6	2	3	1	208	252	-	3
Iowa.....	-	88	-	-	6	4	2	-	284	301	-	4
Missouri.....	-	10	-	1	8	3	4	1	439	558	1	12
North Dakota.....	-	2	-	2	-	-	-	-	62	71	-	2
South Dakota.....	-	17	-	2	1	1	-	-	130	108	-	1
Nebraska.....	-	13	-	4	1	-	-	1	48	109	-	3
Kansas.....	-	3	-	7	10	6	4	-	583	220	-	4
SOUTH ATLANTIC.....	1	36	6	60	33	15	15	3	3,035	3,722	-	68
Delaware.....	-	-	-	-	1	1	-	-	67	71	-	-
Maryland.....	-	-	-	-	-	-	-	-	547	472	-	6
Dist. of Columbia.....	-	-	-	-	2	-	2	-	63	104	-	-
Virginia.....	-	16	-	-	6	3	2	1	478	746	-	11
West Virginia.....	-	-	-	-	7	3	3	1	434	562	-	-
North Carolina.....	-	4	-	-	3	3	-	-	503	930	-	19
South Carolina.....	-	-	-	7	2	1	-	1	119	153	-	11
Georgia.....	-	12	3	29	5	2	3	-	99	161	-	5
Florida.....	1	4	3	24	7	2	5	-	725	523	-	16
EAST SOUTH CENTRAL.....	1	18	2	25	42	23	19	-	2,225	3,413	-	34
Kentucky.....	-	6	-	-	6	2	4	-	784	976	-	10
Tennessee.....	-	5	-	2	15	7	8	-	787	1,339	-	16
Alabama.....	-	4	2	18	17	13	4	-	432	538	-	6
Mississippi.....	1	3	-	5	4	1	3	-	222	560	-	2
WEST SOUTH CENTRAL.....	-	41	-	36	62	35	27	-	2,534	2,546	2	31
Arkansas.....	-	6	-	3	20	15	5	-	255	286	-	13
Louisiana.....	-	4	-	10	11	3	8	-	618	521	-	5
Oklahoma.....	-	7	-	-	2	1	1	-	122	115	2	9
Texas.....	-	24	-	23	29	16	13	-	1,539	1,624	-	4
MOUNTAIN.....	1	31	-	3	37	7	8	22	1,957	2,323	-	10
Montana.....	-	-	-	-	-	-	-	-	170	303	-	-
Idaho.....	-	-	-	-	3	-	-	3	276	389	-	-
Wyoming.....	-	-	-	-	7	3	4	-	79	29	-	1
Colorado.....	-	-	-	-	15	-	-	15	516	477	-	-
New Mexico.....	-	1	-	1	3	3	-	-	269	279	-	2
Arizona.....	-	2	-	2	3	-	-	3	429	527	-	7
Utah.....	1	27	-	-	6	1	4	1	167	301	-	-
Nevada.....	-	1	-	-	-	-	-	-	51	18	-	-
PACIFIC.....	-	22	-	14	107	51	56	-	5,694	5,783	-	34
Washington.....	-	-	-	13	-	-	-	-	563	1,000	-	2
Oregon.....	-	2	-	-	2	2	-	-	584	690	-	-
California.....	-	20	-	1	96	44	52	-	4,188	3,883	-	32
Alaska.....	-	-	-	-	7	5	2	-	247	171	-	-
Hawaii.....	-	-	-	-	2	-	2	-	112	39	-	-
Puerto Rico	-	-	-	12	18	14	4	-	845	755	-	13

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Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDED  
OCTOBER 31, 1964 AND NOVEMBER 2, 1963 (44TH WEEK) - CONTINUED

Area	Measles	Meningococcal Meningitis				Streptococcal Sore Throat and Scarlet Fever		Tetanus		Tularemia		Rabies in Animals	
		Cumulative		1964	1963	1964	1963	Cum.		1964	Cum.	1964	Cum.
		1964	1964					1964	1964				
UNITED STATES...	1,179	55	2,293	2,029	5,899	5,841	3	239	3	284	90	3,854	
NEW ENGLAND.....	339	3	75	124	594	443	-	9	-	1	-	33	
Maine.....	42	-	6	18	107	19	-	-	-	-	-	28	
New Hampshire.....	154	1	2	4	-	15	-	-	-	-	-	2	
Vermont.....	4	-	4	5	-	-	-	-	-	-	-	2	
Massachusetts.....	67	1	31	58	55	72	-	9	-	1	-	1	
Rhode Island.....	17	-	10	11	20	28	-	-	-	-	-	-	
Connecticut.....	55	1	22	28	412	309	-	-	-	-	-	-	
MIDDLE ATLANTIC.....	105	11	302	277	241	228	1	20	-	-	1	112	
New York City.....	13	4	42	44	12	8	-	-	-	-	-	-	
New York, Up-State.....	54	2	86	86	170	146	-	7	-	-	1	106	
New Jersey.....	12	3	99	41	34	36	-	6	-	-	-	-	
Pennsylvania.....	26	2	75	106	25	38	1	7	-	-	-	6	
EAST NORTH CENTRAL.....	182	6	312	311	743	482	-	45	-	21	13	545	
Ohio.....	15	4	81	82	83	77	-	12	-	1	8	278	
Indiana.....	40	1	49	42	230	82	-	12	-	2	1	25	
Illinois.....	16	-	80	62	109	64	-	13	-	13	3	105	
Michigan.....	54	1	71	92	222	182	-	7	-	2	-	52	
Wisconsin.....	57	-	31	33	99	77	-	1	-	3	1	85	
WEST NORTH CENTRAL.....	72	1	134	123	228	122	1	17	1	55	15	1,172	
Minnesota.....	1	-	29	24	10	5	1	4	-	2	10	368	
Iowa.....	32	-	8	7	65	34	-	6	-	1	2	420	
Missouri.....	5	-	60	36	2	8	-	4	1	29	2	177	
North Dakota.....	26	1	20	13	109	62	-	-	-	-	-	56	
South Dakota.....	2	-	3	7	23	9	-	1	-	15	-	82	
Nebraska.....	6	-	6	25	-	-	-	-	-	-	-	35	
Kansas.....	NN	-	8	11	19	4	-	2	-	8	1	34	
SOUTH ATLANTIC.....	90	11	462	373	648	679	1	58	-	28	10	530	
Delaware.....	1	-	6	4	30	5	-	-	-	-	-	-	
Maryland.....	---	---	32	53	---	8	---	3	---	---	2	-	
Dist. of Columbia.....	-	1	16	7	3	4	-	1	-	1	-	-	
Virginia.....	4	2	56	83	190	228	-	7	-	6	7	279	
West Virginia.....	49	1	34	20	221	181	-	1	-	-	-	33	
North Carolina.....	8	2	78	68	25	32	-	13	-	7	-	5	
South Carolina.....	7	-	55	20	9	47	-	5	-	-	-	2	
Georgia.....	4	5	72	30	34	2	-	4	-	13	1	114	
Florida.....	17	-	113	88	172	1	24	-	1	2	1	95	
EAST SOUTH CENTRAL.....	88	4	181	144	1,322	1,063	-	31	-	30	16	502	
Kentucky.....	10	1	58	31	143	24	-	8	-	2	1	57	
Tennessee.....	40	-	56	66	984	997	-	12	-	20	15	371	
Alabama.....	6	3	43	24	97	10	-	6	-	3	-	17	
Mississippi.....	32	-	24	23	98	32	-	5	-	5	-	57	
WEST SOUTH CENTRAL.....	116	6	215	183	571	614	-	27	1	98	15	540	
Arkansas.....	15	3	27	12	-	2	-	8	-	58	1	131	
Louisiana.....	2	-	126	74	4	5	-	4	1	6	3	53	
Oklahoma.....	1	1	12	31	13	24	-	1	-	20	2	89	
Texas.....	98	2	50	66	554	583	-	14	-	14	9	267	
MOUNTAIN.....	59	1	78	72	772	1,252	-	6	1	48	6	135	
Montana.....	---	---	1	3	---	76	---	-	18	---	1	-	
Idaho.....	18	-	3	6	102	44	-	1	-	-	-	-	
Wyoming.....	8	-	5	7	86	128	-	2	1	10	-	-	
Colorado.....	15	-	14	20	228	463	-	-	-	-	-	8	
New Mexico.....	-	-	30	4	168	285	-	1	-	-	1	52	
Arizona.....	6	1	8	11	66	98	-	1	-	-	5	61	
Utah.....	12	-	7	18	122	158	-	1	-	20	-	2	
Nevada.....	-	-	10	3	-	-	-	-	-	-	-	11	
PACIFIC.....	128	12	534	422	780	958	-	26	-	3	14	285	
Washington.....	---	---	40	38	---	252	---	3	---	---	---	-	
Oregon.....	18	-	21	32	14	17	-	1	-	1	-	10	
California.....	76	11	453	328	690	534	-	21	-	2	14	275	
Alaska.....	3	-	7	12	13	60	-	-	-	-	-	-	
Hawaii.....	31	1	13	12	63	95	-	1	-	-	-	-	
Puerto Rico	98	-	32	9	9	11	1	60	-	-	-	25	

# Morbidity and Mortality Weekly Report

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Table 4 (D). TOTAL DEATHS AMONG PERSONS 65 YEARS AND OVER IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)<sup>o</sup>

Area	For weeks ending				Area	For weeks ending			
	10/10	10/17	10/24	10/31		10/10	10/17	10/24	10/31
<b>NEW ENGLAND:</b>									
Boston, Mass.....	157	129	152	141	<b>SOUTH ATLANTIC:</b>				
Bridgeport, Conn.....	23	23	22	14	Atlanta, Ga.....	40	58	63	49
Cambridge, Mass.....	19	13	19	23	Baltimore, Md.....	115	107	140	133
Fall River, Mass.....	21	13	16	13	Charlotte, N.C.....	13	18	17	20
Hartford, Conn.....	31	35	32	33	Jacksonville, Fla.....	24	22	34	28
Lowell, Mass.....	10	22	13	16	Miami, Fla.....	31	50	45	38
Lynn, Mass.....	10	8	20	17	Norfolk, Va.....	25	32	21	26
New Bedford, Mass.....	14	22	19	20	Richmond, Va.....	43	40	44	58
New Haven, Conn.....	22	27	24	32	Savannah, Ga.....	10	7	22	14
Providence, R.I.....	38	33	40	46	St. Petersburg, Fla.....	57	39	37	64
Somerville, Mass.....	5	14	17	11	Tampa, Fla.....	33	36	32	26
Springfield, Mass.....	23	26	38	24	Washington, D.C.....	74	86	77	82
Waterbury, Conn.....	14	17	22	13	Wilmington, Del.....	26	18	22	30
Worcester, Mass.....	39	43	34	46					
<b>MIDDLE ATLANTIC:</b>									
Albany, N.Y.....	13	34	24	27	<b>EAST SOUTH CENTRAL:</b>				
Allentown, Pa.....	24	33	30	25	Birmingham, Ala.....	46	43	43	51
Buffalo, N.Y.....	71	85	91	78	Chattanooga, Tenn.....	19	22	31	26
Camden, N.J.....	20	30	36	25	Knoxville, Tenn.....	15	25	18	34
Elizabeth, N.J.....	24	22	13	17	Louisville, Ky.....	43	40	84	86
Erie, Pa.....	20	25	26	23	Memphis, Tenn.....	50	52	62	54
Jersey City, N.J.....	34	34	47	36	Mobile, Ala.....	16	23	16	22
Newark, N.J.....	47	49	53	34	Montgomery, Ala.....	14	10	12	21
New York City, N.Y.....	979	1,010	959	988	Nashville, Tenn.....	50	46	53	56
Paterson, N.J.....	25	14	20	21*	<b>WEST SOUTH CENTRAL:</b>				
Philadelphia, Pa.....	271	271	341	274	Austin, Tex.....	12	30	27	24
Pittsburgh, Pa.....	101	131	112	112	Baton Rouge, La.....	17	28	18	19
Reading, Pa.....	37	27	25	41	Corpus Christi, Tex.....	11	4	8	5
Rochester, N.Y.....	73	64	68	64	Dallas, Tex.....	53	58	86	65
Schenectady, N.Y.....	20	16	14	18	El Paso, Tex.....	9	12	12	23
Scranton, Pa.....	22	25	27	34	Fort Worth, Tex.....	40	28	44	39
Syracuse, N.Y.....	37	34	52	26	Houston, Tex.....	103	84	85	81
Trenton, N.J.....	20	23	23	17	Little Rock, Ark.....	31	23	32	38
Utica, N.Y.....	27	25	30	21	New Orleans, La.....	83	93	88	82
Yonkers, N.Y.....	18	18	27	20	Oklahoma City, Okla.....	42	51	41	33
<b>EAST NORTH CENTRAL:</b>									
Akron, Ohio.....	48	39	24	28	San Antonio, Tex.....	45	51	65	59
Canton, Ohio.....	15	23	31	25	Shreveport, La.....	20	28	24	18
Chicago, Ill.....	381	401	408	399	Tulsa, Okla.....	11	27	43	43
Cincinnati, Ohio.....	98	87	102	97	<b>MOUNTAIN:</b>				
Cleveland, Ohio.....	97	127	119	114	Albuquerque, N. Mex.....	18	14	13	15
Columbus, Ohio.....	62	60	66	58	Colorado Springs, Colo.....	9	6	12	19
Dayton, Ohio.....	45	50	34	52	Denver, Colo.....	69	77	66	59
Detroit, Mich.....	200	163	198	181	Odgen, Utah.....	6	8	7	7
Evansville, Ind.....	24	28	28	24	Phoenix, Ariz.....	45	39	60	28
Flint, Mich.....	27	12	20	24	Pueblo, Colo.....	9	8	7	12
Fort Wayne, Ind.....	16	23	29	27	Salt Lake City, Utah.....	24	24	20	30
Gary, Ind.....	14	22	11	12	Tucson, Ariz.....	21	15	32	25
Grand Rapids, Mich.....	36	28	27	27	<b>PACIFIC:</b>				
Indianapolis, Ind.....	81	97	86	85	Berkeley, Calif.....	12	8	11	12
Madison, Wis.....	16	29	40	23	Fresno, Calif.....	35	19	22	32
Milwaukee, Wis.....	76	82	76	78	Glendale, Calif.....	28	19	29	22
Peoria, Ill.....	13	18	13	12	Honolulu, Hawaii.....	9	13	17	14
Rockford, Ill.....	11	13	18	18	Long Beach, Calif.....	42	31	52	32
South Bend, Ind.....	14	22	16	29	Los Angeles, Calif.....	263	300	280	289
Toledo, Ohio.....	52	72	60	67	Oakland, Calif.....	23	89	48	59
Youngstown, Ohio.....	27	33	30	25	Pasadena, Calif.....	25	20	29	13
<b>WEST NORTH CENTRAL:</b>									
Des Moines, Iowa.....	35	21	42	37	Portland, Oreg.....	65	57	70	59
Duluth, Minn.....	17	14	24	25	Sacramento, Calif.....	38	40	36	25
Kansas City, Kans.....	22	25	20	27	San Diego, Calif.....	62	58	48	45
Kansas City, Mo.....	96	102	70	69	San Francisco, Calif.....	103	81	105	107
Lincoln, Nebr.....	11	13	21	30	San Jose, Calif.....	19	24	21	32
Minneapolis, Minn.....	68	86	82	70	Seattle, Wash.....	87	82	71	92
Omaha, Nebr.....	35	44	48	40*	Spokane, Wash.....	34	37	22	33
St. Louis, Mo.....	128	144	155	119	Tacoma, Wash.....	32	23	27	27
St. Paul, Minn.....	34	59	44	43					
Wichita, Kans.....	23	38	23	24					

<sup>o</sup>Current Week Mortality for 108 Selected Cities

- 4(A) Total Mortality, all ages..... 11,531
- 4(B) Pneumonia-Influenza Deaths, all ages..... 454
- 4(C) Total Deaths under 1 Year of Age..... 733
- 4(D) Total Deaths, Persons 65 years and over.... 6,385

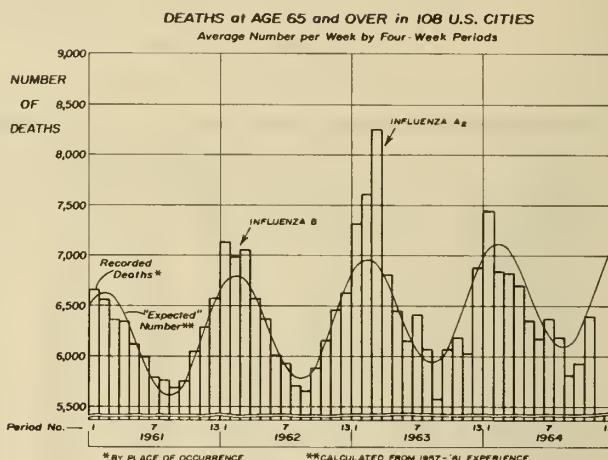
\*Estimate - based on average percent of divisional total.  
Totals for previous weeks include reported corrections.

NOTE: All deaths by place of occurrence.

## SUMMARY OF DEATHS AMONG PERSONS 65 YEARS AND OVER IN 108 U.S. CITIES

The weekly average number of deaths among persons 65 years and over in 108 cities for the four-week period ending October 31 was 6,398 as compared with an expected weekly average of 6,491.

	Week Ending				4-Week Total	Weekly Average
	10/10	10/17	10/24	10/31		
Observed	6,113	6,448	6,648	6,385	25,594	6,398
Expected	6,395	6,458	6,523	6,589	25,965	6,491
Excess	-282	-10	125	-204	-371	-93



(See table page 395)

## TYPHOID FEVER - Aberdeen, Scotland

(Continued from page 390)

item of trade at this counter and on a busy day the contents of 4 or more 6-lb. cans would be used. These were opened, displayed and sliced according to the customer's need. They were generally cut into 2 pieces, one-half being displayed in the window while the other half was cut on demand. In this way, it was possible to postulate that contamination of the contents of a can could be conveyed by equipment, or by handling, to other foods on the same counter.

A review of some recent outbreaks in Great Britain showed that similar though much smaller occurrences could possibly be traced to canned meat and that the mechanism of contamination could be the negative pressure induced during the cooling process and the possible entry of pathogens if present in the cooling water.\*

Concurrent information revealed that cooling water might be specifically contaminated by typhoid organisms. It was therefore decided as a matter of British Government policy to instruct the withdrawal from trade of the products of certain factories between certain dates. This was done throughout Great Britain.

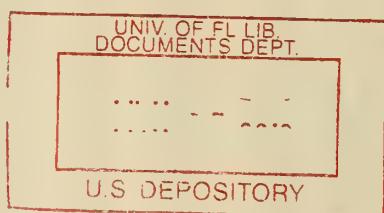
Although the advice was issued that unnecessary journeys into and out of Aberdeen City should be avoided during the time when the epidemic was at its worst, this advice was withdrawn as the epidemic wave collapsed in the third week of June. There has been no reason to issue any further warning and as mentioned earlier in this report secondary cases had been conspicuous by their absence.

The British Government appointed a committee to investigate the origin of this outbreak. The report of the committee has not yet been presented.

\*Lancet, June 13, 1964, Editorial: Epidemics of Typhoid Fever.

U. S. DEPARTMENT OF  
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